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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

4

Complete if Known

Application Number	10/747,737
Filing Date	12/29/2003
First Named Inventor	Bailey et al.
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	PA97/UTS-43-09D13D21

U.S. PATENT DOCUMENTS

[illegible]

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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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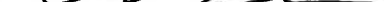
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete If Known	
				Application Number	10/747,737
				Filing Date	12/29/2003
				First Named Inventor	Bailey et al.
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
				Attorney Docket Number	PA97/UTS-43-09D13D21
Sheet	2	of	4		

[illegible]

Examiner Signature		Date Considered	5/15/06
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known			
		Application Number	10/747,737		
		Filing Date	12/29/2003		
		First Named Inventor	Bailey et al.		
		Group Art Unit	Unassigned		
		Examiner Name	Unassigned		
Sheet	3	of	4	Attorney Docket Number	PA97/UTS-43-09D13D21

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
EL	A14	Krauss, et al.; "Fabrication of Nanodevices Using Sub-25nm Imprint Lithography", Appl. Phys. Lett., 67(21), 3114-3116, 1995.	
EL	A15	Feldman et al., "Wafer Chuck for Magnification Correction in X-Ray Lithography", Journal of Vacuum Science and Technology, Nov/Dec 1998, pp. 3476-3479, vol B 16(6)	
EL	A16	SREENIVASAN et al., "High-Resolution Overlay Alignment Methods and Systems for Imprint Lithography," U.S. Patent Application 09/907,512. Filed with USPTO on July 16, 2001.	
EL	A17	CHOI et al., "Method and System of Automatic Fluid Dispensing for Imprint Lithography Processes," U.S. Patent Application 09/908,455. Filed with USPTO on July 17, 2001.	
EL	A18	CHOI et al., "Methods for High-Precision Gap and Orientation Sensing Between a Transparent Template and Substrate for Imprint Lithography," U.S. Patent Application 09/920,341. Filed with USPTO on August 1, 2001.	
EL	A19	CHOI et al., "Flexure Based Macro Motion Translation Stage," U.S. Patent Application 09/934,248. Filed with USPTO on August 21, 2001.	
EL	A20	BAILEY et al., "Template for Room Temperature Low Pressure Micro- and Nano-Imprint Lithography," U.S. Patent Application 09/976,681. Filed with USPTO on October 12, 2001.	
EL	A21	VOISIN, "Methods of Manufacturing a Lithography Template," U.S. Patent Application 10/136,188. Filed with USPTO on May 1, 2002.	
EL	A22	WATTS et al., "System and Method for Dispensing Liquids," U.S. Patent Application 10/191,749. Filed with USPTO July 9, 2002.	
EL	A23	SREENIVASAN et al., "Method and System for Imprint Lithography Using an Electric Field," U.S. Patent Application 10/194,410. Filed with USPTO July 11, 2002.	
EL	A24	SREENIVASAN et al., "Step and Repeat Imprint Lithography Systems," U.S. Patent Application 10/194,414. Filed with USPTO July 11, 2002.	

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Substitute for form 1449B/PTO <h2 style="text-align: center; margin: 10px 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; margin: 10px 0;"><i>(use as many sheets as necessary)</i></p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center; padding: 5px;"><i>Complete if Known</i></th> </tr> <tr> <td style="width: 35%; padding: 5px;">Application Number</td> <td style="padding: 5px;">10/747,737</td> </tr> <tr> <td style="padding: 5px;">Filing Date</td> <td style="padding: 5px;">12/29/2003</td> </tr> <tr> <td style="padding: 5px;">First Named Inventor</td> <td style="padding: 5px;">Bailey et al.</td> </tr> <tr> <td style="padding: 5px;">Group Art Unit</td> <td style="padding: 5px;">Unassigned</td> </tr> <tr> <td style="padding: 5px;">Examiner Name</td> <td style="padding: 5px;">Unassigned</td> </tr> <tr> <td style="padding: 5px;">Attorney Docket Number</td> <td style="padding: 5px;">PA97/UTS-43-09D13D21</td> </tr> </table>		<i>Complete if Known</i>		Application Number	10/747,737	Filing Date	12/29/2003	First Named Inventor	Bailey et al.	Group Art Unit	Unassigned	Examiner Name	Unassigned	Attorney Docket Number	PA97/UTS-43-09D13D21
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Sheet	4	of	4														

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

3

Complete if Known

Application Number	10/747,737
Filing Date	12/29/2003
First Named Inventor	Todd Bailey
Group Art Unit	1756
Examiner Name	Unassigned
Attorney Docket Number	PA97-39D13D21

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Priorities or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
EC	B1	2004/0168588	A1	Choi et al.	9/2/2004	
	B2	2004/0149687	A1	Choi et al.	8/5/2004	
	B3	2003/0216577	A1	Willson et al.	11/20/2003	
	B4	2004/0007789	A1	Choi et al.	1/15/2004	
	B5	2004/0021254	A1	Sreenivasan et al.	2/5/2004	
	B6	2004/0021866	A1	Watts et al.	1/5/2004	
	B7	2004/0163563	A1	Bailey et al.	8/26/2004	
	B8	2004/0251775	A1	Choi et al.	12/16/2004	
	B9	2004/0022888	A1	Sreenivasan et al.	2/5/2004	
	B10	2004/0053146	A1	Sreenivasan et al.	3/18/2004	
	B11	2004/0086793	A1	Sreenivasan et al.	5/6/2004	
	B12	2004/0104641	A1	Choi et al.	6/3/2004	
	B13	2004/0168588	A1	Bailey et al.	9/2/2004	
	B14	2004/0169441	A1	Choi et al.	9/2/2004	
	B15	2004/0170771	A1	Bailey et al.	9/2/2004	
	B16	2004/0189994	A1	Sreenivasan et al.	9/30/2004	
	B17	2004/0189996	A1	Sreenivasan et al.	9/30/2004	
	B18	2004/0200411	A1	Willson et al.	10/14/2004	
	B19	2004/0209177	A1	Sreenivasan et al.	10/21/2004	
	B20	6,842,229	B2	Sreenivasan et al.	1/11/2005	
	B21	2004/0089979	A1	Rubin	5/13/2004	
	B22	2004/0090811	A1	Choi et al.	5/13/2004	
	B23	2004/0112861	A1	Choi et al.	6/17/2004	
	B24	2004/0223131	A1	Choi et al.	11/11/2004	
	B25	4,256,829		Daniel	3/17/1981	
el	B26	2003/0179354	A1	Araki et al.	9/25/2003	

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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/747,737
		Filing Date	12/29/2003
		First Named Inventor	Todd Bailey
		Group Art Unit	1756
		Examiner Name	Unassigned
Sheet	3	of	3
		Attorney Docket Number	PA97-39D13D21

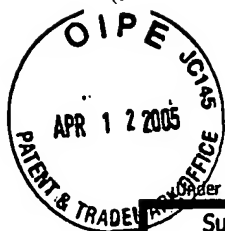
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Citation No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
EL	B29	U.S. App. No. 10/614716, filed 7/7/2003, entitled: Conforming Template for Patterning Liquids Disposed on Substrates, naming inventors Sreenivasan et al.	
EL	B30	U.S. App. No. 10/785248, filed 2/24/2004, entitled: Method to Control the Relative Position Between a Body and a Substrate, naming inventors Sreenivasan et al.	
EL	B31	U.S. App. No. 10/864214, filed 6/9/2004, entitled: Imprint Lithography System to Produce a Light to Impinge upon and Polymerize a Liquid in Superimposition with Template Overlay Marks, naming inventors Sreenivasan et al.	
EL	B32	U.S. App. No. 10/923629, filed 8/20/2004, entitled: Apparatus for Imprint Lithography Using an Electric Field, naming inventors Sreenivasan et al.	
EL	B33	U.S. App. No. 10/978285, filed 10/29/2004, entitled: Step and Flash Imprint Lithography, naming inventors Willson et al.	

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Substitute for form 1449A/PTO				Complete if Known	
				APPLICATION NUMBER	10/747,737
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE	12/29/2003
				FIRST NAMED INVENTOR	Bailey et al.
(use as many sheets as necessary)				Group Art Unit	1756
				Examiner Name	Unassigned
Sheet	1	of	7	Attorney Docket Number	PA97-39D13D21

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office	Number ⁴				

EL	C1	4,731,155		Napoli et al.	3/15/1988	
	C2	5,425,848		Halsma et al.	6/20/1995	
	C3	5,772,905		Chou	6/30/1998	
	C4	6,137,562		Masuyuki et al.	10/24/2000	
	C5	6,309,580	B1	Chou	10/30/2001	
	C6	6,334,960	B1	Willson et al.	1/1/2002	
	C7	6,391,217	B2	Schaffer et al.	5/21/2002	
	C8	6,696,220	B2	Bailey et al.	2/24/2004	
	C9	2002/0177319	A1	Chou	11/28/2002	
	C10	2003/0215577	A1	Willson et al.	11/20/2003	
	C11	2004/0008334	A1	Sreenivasan et al.	1/15/2004	
	C12	2004/0009673	A1	Sreenivasan et al.	1/15/2004	
	C13	2004/0124566	A1	Sreenivasan et al.	7/1/2004	
	C14	6,646,662	B1	Nebashi et al.	11/11/2003	
	C15	6,776,094	B1	Whitesides et al.	8/17/2004	
	C16	6,518,189	B1	Chou	2/11/2003	
7	C17	2002/0132482	A1	Chou	9/19/2002	
EL	C18	2002/0167117	A1	Chou	11/14/2002	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2 of 7

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APPLICATION NUMBER	10/747,737
FILING DATE	12/29/2003
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		Office	Number ²				

EC	C19	6,482,742	B1	Chou	11/19/2002		
	C20	2003/0080471	A1	Chou	5/1/2003		
	C21	2004/0036201	A1	Chou et al.	2/26/2004		
	C22	2004/0192041	A1	Jeong et al.	9/30/2004		
	C23	6,828,244	B2	Chou	12/7/2004		
	C24	6,809,356	B2	Chou	10/26/2004		
	C25	2002/0018190	A1	Nogawa et al.	2/14/2002		
	C26	6,019,166		Viswanath et al.	2/1/2000		
	C27	5,563,684		Stagaman	10/8/1996		
	C28	2004/0197843	A1	Chou et al.	10/7/2004		
	C29	2004/0156108	A1	Chou et al.	8/12/2004		
	C30	2004/0137734	A1	Chou et al.	7/15/2004		
	C31	2004/0131718	A1	Chou et al.	7/8/2004		
	C32	2004/0118809	A1	Chou et al.	6/24/2004		
	C33	2004/0046288	A1	Chou	3/11/2004		
	C34	2003/0080472	A1	Chou	5/1/2003		
↓	C35	2003/0034329	A1	Chou	2/20/2003		
EL	C36	2002/0042027	A1	Chou et al.	4/11/2002		

Examiner
SignatureDate
Considered

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				Examiner Name	Unassigned
				Attorney Docket Number	PA97-39D13D21
Sheet	4	of	7		

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office	Number ⁴				

EL	C47	WO	00/21689		Chou et al.	4/20/2000		
	C48	JP	02-92603		Kurikawa et al.	4/3/1990		
	C49	JP	02-24848		Kamio	1/26/1990		
	C50	WO	01/47003		Steiner et al.	6/28/2001		
	C51	WO	02/07199		Chou	1/24/2002		
	C52	WO	2004/114016		Chou et al.	12/29/2004		
	C53	WO	99/05724		Chou et al.	2/4/1999		
	C54	WO	03/010289		Chou et al.	2/6/2003		
	C55	WO	03/079416		Chou	9/25/2003		
EL	C56	WO	03/099536		Chou et al.	12/4/2003		

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				APPLICATION NUMBER	10/747,737
				FILING DATE	12/29/2003
				FIRST NAMED INVENTOR	Bailey et al.
				Group Art Unit	1756
Sheet	5	of	7	Examiner Name	Unassigned
				Attorney Docket Number	PA97-39D13D21

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²

EL	C57	Chou, Nanoimprint Lithography and Lithographically Induced Self-Assembly, MRS Bulletin, pp. 512 - 517, 7/1/2001	
	C58	Choi et al., Design of Orientation Stages for Step and Flash Imprint Lithography, Precision Engineering, pp. 192 - 199, 1/1/2001	
	C59	Colburn et al., Step and Flash Imprint Lithography for sub-100 nm Patterning, Proceedings of SPIE Vol. 3997, pp. 453 - 457, 1/1/2000	
	C60	Chou et al., Imprint Lithography with 25-Nanometer Resolution, Science Vol. 272, pp. 85 - 87, 4/5/1996	
	C61	Chou et al., Imprint Lithography with Sub-10 nm Feature Size and High Throughput, Microelectronic Engineering 35, pp. 237 - 240, 1/1/1997	
	C62	Halsma et al., Mold-assisted Nanolithography: A Process for Reliable Pattern Replication, J. Vac. Sci. Technol. B, pp 4124 - 4128, 11/1/1996	
	C63	Chou et al., Imprint of Sub-25 nm Vias and Trenches in Polymers, Appl. Phys. Lett. 67 (21), 11/20/1995	
	C64	Johnson et al., Advances in Step and Flash Imprint Lithography, SPIE Microlithography Conference, 2/23/2003	
EL	C65	Chou et al., Lithographically Induced Self-assembly of Periodic Polymer Micropillar Arrays, J. Vac. Sci. Technol. B 17 (6), pp. 3197 - 3202, 11/1/1999	

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				FIRST NAMED INVENTOR	Bailey et al.
				Group Art Unit	1756
				Examiner Name	Unassigned
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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EC	C66	Colburn et al., Step and Flash Imprint Lithography: A New Approach to High-Resolution Patterning, Proc. Of SPIE, vol. 3676, 3/1/1999	
	C67	Heidari, Nanoimprint Lithography at the 6 in. Wafer Scale, J. Vac. Sci. Technol. B 18(6), pp. 3557 - 3560, 11/1/2000	
	C68	Translation of Japanese Patent 02-92603	
	C69	Translation of Japanese Patent 02-24848	
	C70	Chou et al., Ultrafast and Direct Imprint of Nanostructures in Silicon, Nature, Col. 417, (June 2002), pp. 835-837, 6/1/2002	
	C71	Chou et al., Nanoimprint Lithography, Journal of Vacuum Science Technology B 14(16), pp. 4129-4133, 11/1/1996	
	C72	Colburn et al., Development and Advantages of Step-and-Flash Lithography, Solid State Technology, 7/1/2001	
	C73	Colburn et al., Characterization and Modeling of Volumetric and Mechanical Properties for Step and Flash Imprint Lithography Photopolymers, Journal of Vacuum Science Technology. Vol b. 19(6), 11/1/2001	
EC	C74	Bailey et al., Step and Flash Imprint Lithography: Defect Analysis, Journal of Vacuum Science, B 19(6), pp. 2806-2810, 11/1/2001	

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EC	C75	Bailey et al., Step and Flash Imprint Lithography: Template Surface Treatment and Defect Analysis, Journal of Vacuum Science, B 18(6), pp. 3572-3577, 11/1/2000	
EC	C78	Schneider et al., Stripes of Partially Fluorinated Alkyl Chains: Dipolar Langmuir Monolayers	

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